Bridge Culvert Inspection													
Bridge File Number 09523 -1			23 -1 Bridge Culvert			Form Type		CUL1					
Year Built 1987							Lot No.			3			
Bridge or Town Name WATER V			R VALLEY			Inspector Name		Owen Salava					
Located Over SILVER C			R CREEK, 3.89.25, WATERCRS-ST			S-ST	Inspector Class			BR CLS A			
Located On		579:02 0	31.646				Assistant Name						
Water Body Cl.	/Year					Assistant Class							
Navigabil. Cl./Year					Inspection Date		09-Aug-2011						
Legal Land Loc	ation	NE SEC	26 TWP 29 R	GE 6 W5I	М		Data Entry By		Marcia Chavez				
Longitude, Latit	ude	-114:43:	59, 51:30:53				Data Entry Date			16-Sep-2011			
		Transportation (AIT)				Reviewer Name			John O'Brien				
Contract Main. Area CMA28							Review Date		15-Aug-2011				
			leg. (RHF)				Dept. Reviewer Name		Andrew Smikle	es			
AADT/Year		200 / 20					Dept. Review Date		19-Sep-2011				
Road Classifica	ition	RCU-209	9G-90				Follow-Up By		· · · · · · · · · · · · · · · · · · ·				
Detour Length ((km)												
Bridge Culvert Information													
Number of Culverts 1													
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	-		3658		SP		38.4		152X51	3.0	ROUND	
Special Feature	es												
Special Feature	es Comr	ment											
					Uti	lities (L	ocated	at)					
Utility Attachme									1				
Telephone	South	ditch.					Gas						
Power								unicipal					
Others						Problem (Y/N) No			No				
Remarks													
			Road / Embankment										
				Last	Now	Explanation of Condition							
Horizontal Alignment			5	5	Curves @ both ends. Limited sight distance, superelevated.					evated.			
Vertical Alignment			11.000		6	6							
Roadway Width (m)			11.000			_							
Embankment					7	7							
Sideslope (.:1)		4.0				_						
(Height of Co	ver(m) :	1)											
Guardrail (Y/N)			No										
Approach Roa	d / Emt	bankmen	t General Rat	ing	5	5							
						Unstre	am End						
Culvert Compo	onent				Last	Now		ation of	Condi	tion			
Direction			N				oonan						
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall			7	7	Narrow cracks.								
Collar			7	7	Medium width cracks.								
Wingwalls					Х	Х							
(Shape :)							1						
Cutoff Wall					7	7							
Cutoff Wall							1						

Alberta Transportation

			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
Bevel End	1	8	8	-						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW			_						
Above/Below (mm) 400			-							
Scour Protection		7	7							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 450)										
Scour/Erosion		7 7		Some 600mm rock @ banks 15m U/S.						
Beavers (Y/N)	No			Old beaver dam U/S partially opened but acts as guidebank & forces flow to scour out NE bank. Remove remainder of dam.						
Upstream End General Rating		7	7							
				Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı):	, Rise (mm): 3658, Type: SP)						
Barrel Last Accessible Date	09-Aug-2011									
Special Features	1		1							
Special Feature										
(Type:)			-							
Special Feature										
(Type :)										
Roof		7	7							
Measured Rise (mm)										
Measured At Ring No.				Estimate, 0.5m water/silt.						
Sag (mm)	162									
Percent Sag	4									
Sidewall		7	7							
Measured Span (mm)	3820									
Measured At Ring No.	5									
Deflection (mm)	162									
Percent Deflection	4									
Floor		N	N	Deep silt/rocks with 500mm water on floor.						
Bulge (mm)										
Measured At Ring No.										
Abrasion (Y/N)	Yes									
Circumferential Seams		5	5	1 bolt loose @ R5 @ roof. 25mm						
Separation (mm)	25			gap @ this location.						
Longitudinal Seams		7	7							
Total No. of Cracked Rings 0										
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes									
Coating		6	6	Minor superficial corrosion @ bevels.						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes			1						
Camber POS/ZERO/NEG	NEG									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

09523 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel				
Culvert Component		Last		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca t	tion Code: MAIN, Sp	an (mm):	, Rise (mm): 3658, Type: SP)				
Ponding (Y/N)	No							
Fish Passage Adequacy			8	Rocks in U/S bevel.				
Baffle		X	X					
(Туре :)								
Waterway Adequacy		8	8					
Icing (Y/N)	No							
Silting (Y/N)	Yes							
Drift (Y/N)	No							
Barrel General Rating			7					
		D	ownsti	ream End				
Culvert Component			Now	Explanation of Condition				
Direction		S		_				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar			X					
Wingwalls		Х	Х					
(Shape :)			-					
Cutoff Wall			Х					
Bevel End		6	6					
Heaving (mm)	0							
Invert Above/Below Stream Bed				Sides pushed in 250mm.				
Above/Below (mm)	200	_	1					
Scour Protection		5	5	Bevel projects from rock 300 to 500mm.				
(Type : RIP RAP)				-				
(Avg. Rock Size(mm) : 600)			1					
Scour/Erosion		5	5					
Beavers (Y/N)	No							
Downstream End General Ratir	ng	5	5					
			1	re Usage				
0k		Last	Now	Explanation of Condition				
Channel (U/S and D/S) Alignment			6					
Bank Stability			4	Cutbanks d/s sloughing - see u/s "Beaver" comments.				
HWM (m below Top of Culvert) 2.0				(03/Oct/2002)				
Drift (Y/N)	Yes							
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	1							
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·							
i ion compensation measure Z .								

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department Comm	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING			-								
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION	:	2012	Remove beaver dam U/S.								
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow)	77.8/77.3	.8 Sufficiency Rating (Last/N (%)	low) 7	74.2/75.7 Est. Repl. Yr 2040		2040	Maint. Reqd. (Y/N)		Yes	
Special Comments for Next Inspection			Department Comments								
Maintenance Reviewed By					Date		Estimated Total 0				
Proposed Long-Term Strategy 2006.07.28 With normal maintenance culvert should be good until 2050.											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Dave La	am		Previous /	Assistant's Name						
Next Inspection Date 09-N		D9-Nov-2014 F			Previous Inspection Date 01-Oct-2009						
Inspection Cycle (Default) (months) 39											
Comment											